Editorial to the first issue

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As the design, construction and maintenance of civil structures continue to evolve, it is becoming imperative that these structures be monitored for their health. To meet this need, the discipline of Civil Structural Health Monitoring (CSHM) has emerged. It involves the new subject Civionics that integrates the civil structures and electronics and aims to assist civil engineers in realizing the full benefits of structural health monitoring. Against this background, a new *Journal of Civil Structural Health Monitoring* (JCSHM) has recently been established by ISHMII and Springer. The aim of the journal is to advance the understanding and the application of Structural Health Monitoring (SHM) and Civionics in civil engineering infrastructure. The journal on CSHM has articles that address performance monitoring for structures with strain, load, temperature, deformation, vibration and environmental measurements with structural modeling for load capacity ratings and

service life estimation. The journal, also, addresses integrating traditional visual assessment and field/laboratory destructive testing programs with the state-of-the-art internal condition assessment through nondestructive evaluation of concrete, steel, fiber reinforced polymers, masonry and wood structures. Articles based on original basic research as well as novel applications to civil infrastructure systems including highways bridges, railway bridges, pipelines and buildings, are included. Range of topics cover following subjects: sensors, instrumentation, model validation, system identification, monitoring strategies, data mining, data management, interpretation of data for decision making processes.

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